

Mathematische Zeitschrift

Band 204 · 1990

Herausgegeben von / Edited by

E. Becker, Dortmund

G. Carlsson, Princeton

K. Diederich, Wuppertal

G. Faltings, Princeton

H. Heyer, Tübingen

J. Jost, Bochum

H. Knörrer, Zürich

E. Zehnder, Zürich

Wissenschaftlicher Beirat / Advisory Board

W. P. Barth, Erlangen · K. H. Hofmann, Darmstadt

J. C. Jantzen, Eugene · W. Klingenberg, Bonn

H. H. Schaefer, Tübingen · L. Smith, Göttingen

W. v. Wahl, Bayreuth



Springer International

"**Mathematische Zeitschrift**" was founded in 1918 and edited by *L. Lichtenstein* in cooperation with *K. Knopp*, *E. Schmidt* and *I. Schur*; after Lichtenstein's death, 1933, it was edited by *K. Knopp*. The Editorial Committee was increased to include *E. Kamke* and *F.K. Schmidt* in 1933, *R. Nevanlinna* in 1936 and *H. Wielandt* in 1950. The latter became Managing Editor in 1952. He was succeeded in 1973 by *H. Salzmann*, 1977 by *H. Heyer* and 1984 by *W.P. Barth* and *W. v. Wahl*. As of 1990 *E. Becker* is the Managing Editor.

Die „**Mathematische Zeitschrift**“ wurde im Jahre 1918 von *L. Lichtenstein* unter der Mitwirkung von *K. Knopp*, *E. Schmidt* und *I. Schur* gegründet und herausgegeben. Nach dem Tode Lichtensteins übernahm *K. Knopp* 1933 die Herausgabe. Die Schriftleitung ergänzte sich 1933 durch *E. Kamke* und *F.K. Schmidt*, 1936 durch *R. Nevanlinna* und 1950 durch *H. Wielandt*, der 1952 die Herausgabe übernahm. 1973 ging die Federführung an *H. Salzmann*, 1977 an *H. Heyer* und 1984 an *W.P. Barth* und *W. v. Wahl* über. Seit 1990 ist *E. Becker* geschäftsführender Herausgeber.

Manuscripts may be sent to / Manuskripte nehmen entgegen:

E. Becker, FB Mathematik, Universität Dortmund, Postfach 50 05 00, D-4600 Dortmund 50, Federal Republic of Germany

G. Carlsson, Department of Mathematics, University of Princeton, Fine Hall—Washington Road, Princeton, NJ 08544, USA

K. Diederich, Gesamthochschule, Fachbereich 7, Mathematik, Gaußstr. 20, D-5600 Wuppertal 1, Federal Republic of Germany

G. Faltings, Department of Mathematics, University of Princeton, Fine Hall—Washington Road, Princeton, NJ 08544, USA

H. Heyer, Mathematisches Institut der Universität, Auf der Morgenstelle 10, D-7400 Tübingen, Federal Republic of Germany

J. Jost, Mathematisches Institut der Universität, Postfach 10 21 48, D-4630 Bochum, Federal Republic of Germany

H. Knörrer, Mathematisches Seminar, ETH-Zentrum, Rämistr. 101, CH-8092 Zürich, Switzerland

E. Zehnder, Mathematisches Seminar, ETH-Zentrum, Rämistr. 101, CH-8092 Zürich, Switzerland

Copyright

Submission of a manuscript implies: that the work described has not been published before (except in the form of an abstract or as part of a published lecture, review, or thesis); that it is not under consideration for publication elsewhere; that its publication has been approved by all coauthors, if any, as well as by the responsible authorities at the institute where the work has been carried out; that, if and when the manuscript is accepted for publication, the authors agree to automatic transfer of the copyright to the publisher (society); and that the manuscript will not be published elsewhere in any language without the consent of the copyright holders.

All articles published in this journal are protected by copyright, which covers the exclusive rights to reproduce and distribute the article (e.g., as offprints), as well as all translation rights. No material published in this journal may be reproduced photographically or stored on microfilm, in electronic data bases, video disks, etc., without first obtaining written permission from the publisher.

The use of general descriptive names, trade names, trademarks, etc., in this publication, even if not specifically identified, does not imply that these names are not protected by the relevant laws and regulations.

While the advice and information in this journal is believed to be true and accurate at the date of its going to press, neither the authors, the editors, nor the publisher can accept any legal responsibility for any errors or omissions that may be made. The publisher makes no warranty, express or implied, with respect to the material contained herein.

Special regulations for photocopies in the USA: Photocopies may be made for personal or in-house use beyond the limitations stipulated under Section 107 or 108 of U.S. Copyright Law, provided a fee is paid. This fee is US \$0.20 per page, or a minimum of US \$1.00 if an article contains fewer than five pages. All fees should be paid to the Copyright Clearance Center, Inc., 21 Congress Street, Salem, MA 01970, USA, stating the ISSN 0025-5874, the volume, and the first and last page numbers of each article copied. The copyright owner's consent does not include copying for general distribution, promotion, new works, or resale. In these cases, specific written permission must first be obtained from the publisher.

Printers: Universitätsdruckerei H. Stürtz AG, D-8700 Würzburg

© Springer-Verlag, Berlin Heidelberg 1990

Springer-Verlag GmbH & Co. KG, 1000 Berlin 33

Printed in Germany

Inhalt/Contents

- Bartsch, T., Clapp, M.: Bifurcation Theory for Symmetric Potential Operators and the Equivariant Cup-length 341
- Bekka, M.E.B., Ludwig, J.: Complemented \ast -primitive Ideals in L^1 -algebras of Exponential Lie Groups and of Motion Groups 515
- Bergweiler, W.: Proof of a Conjecture of Gross Concerning Fix-points 381
- Berndt, R., Böcherer, S.: Jacobi Forms and Discrete Series Representations of the Jacobi Group 13
- Böcherer, S., \rightarrow Berndt, R.
- Bombal, F., Cembranos, P., Mendoza, J.: On the Surjective Dunford-Pettis Property 373
- Bonami, A., Charpentier, P.: Comparing the Bergman and the Szegő Projections 225
- Campana, F., Schumacher, G.: A Geometric Algebraicity Property for Moduli Spaces of Compact Kähler Manifolds with $h^{2,0}=1$ 153
- Cembranos, P., \rightarrow Bombal, F.
- Charpentier, P., \rightarrow Bonami, A.
- Cioranescu, I.: Moment Sequences for Ultradistributions 391
- Clapp, M., \rightarrow Bartsch, T.
- Cottin, C.: Mixed K -Functionals: A Measure of Smoothness for Blending-type Approximation 69
- Dajczer, M.: Euclidean Submanifolds with Nonparallel Normal Space 551
- Davis, D.M., Mahowald, M.: v_1 -Periodicity in the Unstable Adams Spectral Sequence 319
- deLaubenfels, R.: Integrated Semigroups and Integrodifferential Equations 501
- Demailly, J.-P.: Cohomology of q -convex Spaces in Top Degrees 283
- Dikranjan, D.N., Shakhmatov, D.B.: Products of Minimal Abelian Groups 583
- Edwards, C.M., Rüttimann, G.T.: On Inner Ideals in Ternary Algebras 309
- Evans, W.D., Harris, D.J., Kauffman, R.M.: Boundary Behaviour of Dirichlet Eigenfunctions of Second Order Elliptic Operators 85
- Ferus, D., Pedit, F.: S^1 -equivariant Minimal Tori in S^4 and S^1 -equivariant Willmore Tori in S^3 269
- Galambos, J., Kátaí, I.: The Continuity of the Limiting Distribution of a Function of Two Additive Functions 247
- Giga, Y., \rightarrow Yoshida, Z.
- Glover, J.: Symmetries of Excessive Measures of Markov Processes 1
- Harris, D.J., \rightarrow Evans, W.D.
- Herb, T.: The Darboux System and Embedding Problems in Three-Dimensional Riemannian Spaces 357
- Igodt, P., Lee, K.B.: On the Uniqueness of Some Affinely Flat Infra-nilmanifolds 605
- Irving, R.S.: Singular Blocks of the Category \mathcal{O} 209
- Kátaí, I., \rightarrow Galambos, J.
- Kauffman, R.M., \rightarrow Evans, W.D.
- Krafft, V., Osenberg, D.: Eisensteinreihen für einige arithmetisch definierte Untergruppen von $SL_2(\mathbb{H})$ 425
- Krieg, A.: The Maaß Space and Hecke Operators 527
- Krüskenper, M.: On Real Local-Global Principles 145
- Kuwabara, R.: Isospectral Connections on Line Bundles 465
- Lee, K.B., \rightarrow Igodt, P.
- Lück, W., Madsen, I.: Equivariant L -Theory II 253
- Ludwig, J., \rightarrow Bekka, M.E.B.
- Madan, M.L., \rightarrow Rzedowski Calderón, M.
- Madsen, I., \rightarrow Lück, W.
- Mahé, L.: Level and Pythagoras Number of Some Geometric Rings 615
- Mahowald, M., \rightarrow Davis, D.M.
- Marshall, M., Walter, L.: Signatures of Higher Level on Rings with Many Units 129
- May, W.: Isomorphism of Endomorphism Algebras over Complete Discrete Valuation Rings 485
- Mendoza, J., \rightarrow Bombal, F.
- Monsky, P.: Mock Heegner Points and Congruent Numbers 45

- Neuhardt, E.: Kernel Operators on L^p -spaces Associated with Semifinite von Neumann Algebras 297
- Osenberg, A., → Krafft, V.
- Pannenberg, M.: A Characterization of a Class of Locally Compact Abelian Groups via Korovkin Theory 451
- Pedit, F., → Ferus, D.
- Ranicki, A., Weiss, M.: Chain Complexes and Assembly 157
- Rüttimann, G.T., → Edwards, C.M.
- Rzedowski Calderón, M., Villa Salvador, G.D., Madan, M.L.: Galois Module Structure of Rings of Integers 401
- Salvati Manni, R.: On the Holomorphic Differential Forms of the Siegel Modular Variety II 475
- Schumacher, G., → Campana, F.
- Shakhmatov, D.B., → Dikranjan, D.N.
- Soergel, W.: The Prime Spectrum of the Enveloping Algebra of a Reductive Lie Algebra 559
- Villa Salvador, G.D., → Rzedowski Calderón, M.
- Walter, L., → Marshall, M.
- Weiss, M., → Ranicki, A.
- Winkelmann, J.: On Automorphisms of Complements of Analytic Subsets in \mathbb{C}^n 117
- Yeung, S.-K.: Complete Kähler Manifolds of Positive Ricci Curvature 187
- Yoshida, Z., Giga, Y.: Remarks on Spectra of Operator Rot 235
- Covered by *Zentralblatt für Mathematik* and *Current Mathematical Publication*

